

Infrared System Engineering Hudson Richard

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Sending The Internet From An LED Lightbulb

I was a collaborator on the (now completed) EU funded FP7 MYCOSPEC project, where I performed multivariate modelling of mid-infrared data for classification ... and successfully deployed a GC-FID ...

Dr. Gregor Kos

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I was a collaborator on the (now completed) EU funded FP7 MYCOSPEC project, where I performed multivariate modelling of mid-infrared data for classification ... and successfully deployed a GC-FID ...

This classic opens with a history of the development of the infrared portion of the spectrum, probes the system engineering process, and then examines the characteristics of the successful system engineer. The next eleven chapters delve deeply into the elements of infrared technology. Chapter 13 explains the functional relationships between the various system elements and the effects of their interactions when assembled into a system. In Chapter 14 the reader is invited to watch the development of an infrared search system for commercial jet transports. Part II contains an in-depth treatment of the applications of infrared techniques to the solution of military, industrial, medical, and scientific problems. It contains nearly 1400 annotated references to the infrared literature of the world. The annotations summarize the content, describe the hardware, details its performance and examine the significant results. The references are carefully arranged, extensively indexed, and does not contain citations to the classified or report literature, a feature appreciated by most readers. For those readers having the necessary credentials, Appendix 4 is a guide to the unpublished and classified literature of the infrared.

Electro-optical and infrared systems are fundamental in the military, medical, commercial, industrial, and private sectors. Systems Engineering and Analysis of Electro-Optical and Infrared Systems integrates solid fundamental systems engineering principles, methods, and techniques with the technical focus of contemporary electro-optical and infrared optics, imaging, and detection methodologies and systems. The book provides a running case study throughout that illustrates concepts and applies topics learned. It explores the benefits of a solid systems engineering-oriented approach focused on electro-optical and infrared systems. This book covers fundamental systems engineering principles as applied to optical systems, demonstrating how modern-day systems engineering methods, tools, and techniques can help you to optimally develop, support, and dispose of complex, optical systems. It introduces contemporary systems development paradigms such as model-based systems engineering, agile development, enterprise architecture methods, systems of systems, family of systems, rapid prototyping, and more. It focuses on the connection between the high-level systems engineering methodologies and detailed optical analytical methods to analyze, and understand optical systems performance capabilities. Organized into three distinct sections, the book covers modern, fundamental, and general systems engineering principles, methods, and techniques needed throughout an optical system's development lifecycle (SDLC); optical systems building blocks that provide necessary optical systems analysis methods, techniques, and technical fundamentals; and an integrated case study that unites these two areas. It provides enough theory, analytical content, and technical depth that you will be able to analyze optical systems from both a systems and technical perspective.

Contents: Radiation Theory, Artificial Sources, Natural Sources, Atmospheric Scattering, Atmospheric Absorption, Propagation Through Atmospheric Turbulence, Optical Materials, Optical Design, Optical Elements-Lenses and Mirrors, Optical-Mechanical Scanning Techniques and Devices, Detectors, Charge-Coupled Devices, Imaging tubes, Photographic Film, Cooling Systems, Detector-Associated Electronics, Reticle and Image Analyses, Displays, Imaging Systems, Radiometry, Warning Systems, Tracking Systems, Ranging, Communications, and Simulation Systems, Aerodynamic Influences on Infrared System Design, and Physical Constants and Conversion Factors.

Evolutionary development is based on using continuous experimentation and adaptation in changing circumstances to reward success, while allowing, but eventually eliminating, failure. Since this approach is agile, flexible, quick reacting, and thrives on change, it contrasts with strategic planning in which systems are developed in a planned and orderly fashion to meet future requirements. A planned system is rigid, slow to react, and resists or ignores change, which contrasts with how the military traditionally develops weapon systems. One word that distinguishes between evolutionary and planned development is "chaos." Chaos, like risk, is unavoidable, and hence should be managed rather than avoided. Indeed, a certain degree of chaos is desirable because it generates the necessary set of adaptations and ideas that can eventually be "selected" for evolutionary improvement. The Darwinian concept of "survival of the fittest" can be applied to ideas, systems, and organizations that seek to maintain a competitive advantage.

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From officially sanctioned, high-tech operations to budget spy cameras and cell phone video, this updated and expanded edition of a bestselling handbook reflects the rapid and significant growth of the surveillance industry. The Handbook of Surveillance Technologies, Third Edition is the only comprehensive work to chronicle the background and curre

Understanding Surveillance Technologies demystifies spy devices and describes how technology is used to observe and record intimate details of people's lives often without their knowledge or consent. From historical origins to current applications, it explains how satellites, pinhole cameras, cell phone and credit card logs, DNA kits, tiny m

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